

## PATENT ABSTRACTS OF JAPAN

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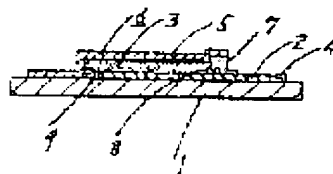
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(54) HUMIDITY SENSOR

(57)Abstract:

PURPOSE: To detect humidity over a long period of time with high reliability by mounting an electrolyte membrane and the protective film covering the electrolyte membrane and constituting a part of the protective film of an electrode composed of a gold membrane having humidity permeability as an opposed electrode.

CONSTITUTION: A membrane electrode 2 constituted of gold is formed to an insulating substrate 1 and the other end of the electrode 2 excepting one end thereof is covered with an electrolyte membrane 3 and the end part exposed to the outside of the electrode 2 is set to a terminal 4. The electrolyte membrane 3 is covered with a protective film 6 and the protective film 6 is constituted of an electrode 5 composed of a gold membrane having humidity permeability and an insulating film 7. The protective film 6 having the electrode 5 composed of the gold membrane having humidity permeability blocks the electrolyte membrane 3 formed on the electrode 2 of the substrate 1 from an atmosphere to block the dust or oily gas bonded to the electrolyte membrane 3 to prevent the deterioration of said membrane 3. Therefore, this humidity sensor detects humidity over a long period of time with high reliability.



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